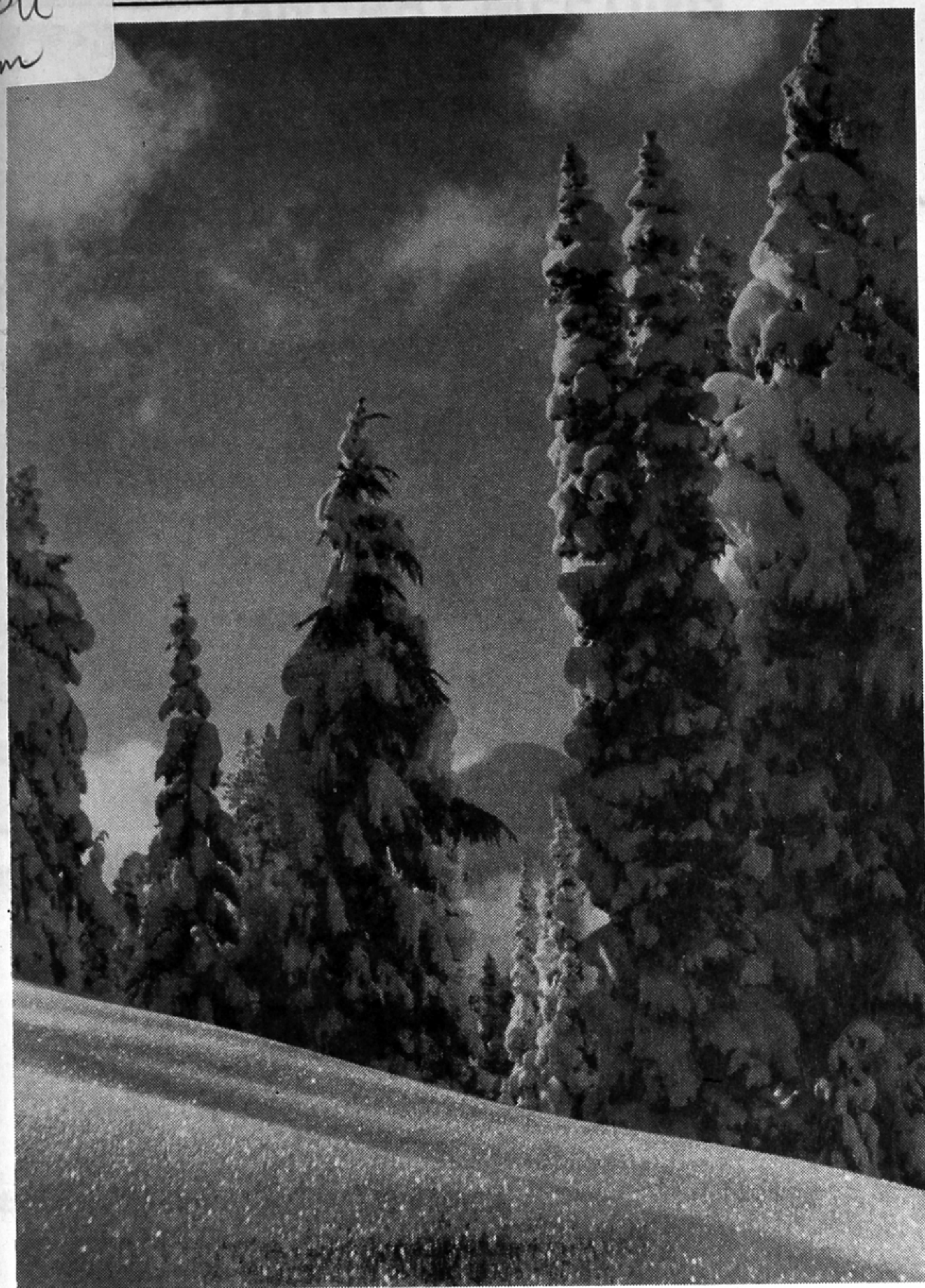


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PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 53, Number 8



December 1992



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On the cover: Mount Rainier in winter from Chinook Pass (see Winter Social Meeting, this issue).

JANUARY MEETING

MARK YOUR CALENDARS NOW!

WINTER SOCIAL MEETING

HONORING 50-YEAR MEMBERS FOR 1992 AND 1993

DATE: **Wednesday, January 27, 1993**

There will not be a January issue of the *Chemist*. Please be sure to mark the date now, and make your reservations early.

LOCATION: **Mountain Room, Rainier Brewing Company**

SCHEDULE:
6:00 pm - social gathering and tours
6:45 pm - buffet dinner
7:30 pm - speaker and program

Please feel free to join us for the program even if you don't attend dinner.

DINNER: **Buffet**

COST: **\$6.00 per person**

NOTE: **When you reserve your dinner, you have an obligation to pay. Once the food is ordered, the section is billed even if you do not show up.**

DIRECTIONS: **Exit I-5-Southbound - at Airport Way South (Exit 164) to Airport Way; continue 1 mile; Brewery on left-hand side.**
Exit I-5 - Northbound - at Spokane Street (Exit 163); continue in right-hand lane to 6th Avenue South. Turn right onto 6th Avenue South; continue to Hanford Street, turn right and proceed to Airport Way; turn left on Airport Way; continue to Brewery on right-hand side.
Plenty of parking available at Brewery. Signs in the parking lot will direct you to the Mountain Room.

RESERVATIONS: **Make reservations by NOON, Friday, January 22, 1993.**
Seattle: 543-1610 Bellingham: 676-3070
Tacoma: 535-7530

OFFER TO STUDENTS: **The Section will pay half the cost of dinner for the first ten students (graduate, undergraduate, or high school) who call 543-1610.**

RESULTS OF THE ELECTION FOR 1993 PUGET SOUND SECTION OFFICERS

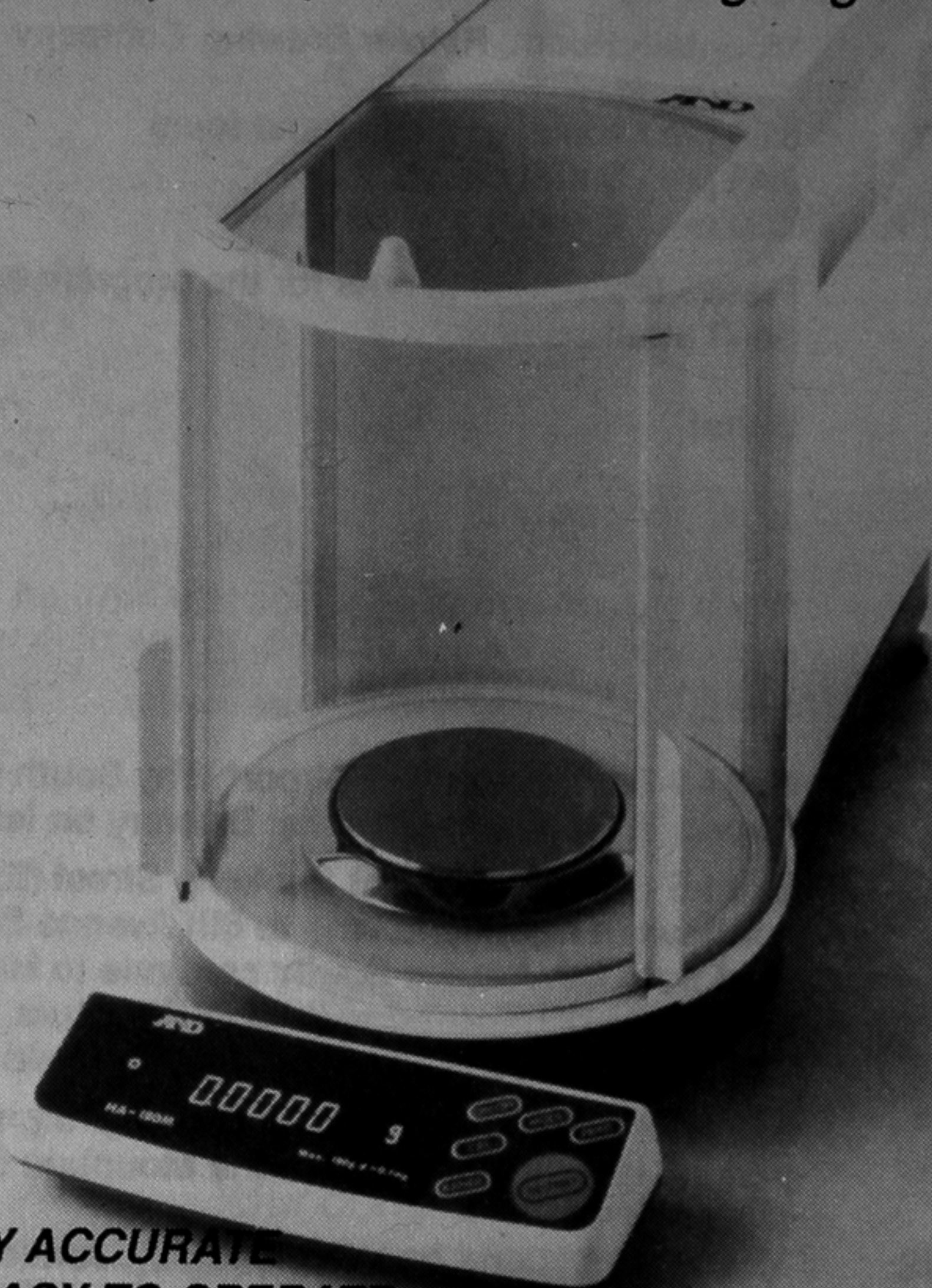
Local section officers for 1993 were elected by voice vote at the November 16th meeting at Shoreline Community College in Seattle. The slate of candidates as presented was accepted unanimously. Randy Eatherton of Weyerhaeuser was chosen Chair-Elect, Diane Davis of Metro was elected Secretary, and John Westland of Weyerhaeuser was elected Alternate Councilor (1995). David Munch, Seattle Central Community College, was reelected Treasurer, and William Wasserman of Seattle Central Community College was reelected Councilor (1995). Our congratulations to all.

December 1992 3

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JANUARY SOCIAL MEETING TO HONOR 50-YEAR MEMBERS

The January meeting of the Puget Sound Section of the American Chemical Society will be held on January 27, 1993, in the Mountain Room at the Rainier Brewing Company in Seattle. There is no section meeting planned for December 1992.

Honored guests will be the 37 chemists who have been members of the American Chemical Society since 1942 and 1943.

Mark your calendars now for this event. The deadline for reservations is January 20. There will not be a January 1993 *Chemist*.

ACS HONORS ITS 1993 50-YEAR MEMBERS

Twenty-five members of our local section will become 50-year members of ACS in 1993, honored by our local section and the national society. Each 50-year member receives a certificate, a special pin, and a permanent badge good for free registration at all national and regional meetings. These members will be honored guests at our section social meeting on January 27, 1993:

Dr. Robert F. Labbe, Seattle, WA
Dr. Walter C. McCarthy, Seattle, WA
Mr. George O. Orth, Jr., Seattle, WA
Mr. Frank Thomas Piskur, Seattle, WA
Mr. Melvin Z. Poliakoff, Vancouver, BC
Mr. Frederick E. Ray, Port Townsend, WA
Mr. Frederick W. Schwer, Lacey, WA
Mr. Gordon N. Steele, Friday Harbor, WA
Mr. Donald W. Turnham, Kent, WA
Mr. Lloyd E. Van Blaricom, Shelton, WA
Mr. Dirk Verhagen, Bothell, WA
Mr. Earl Robert Weber, Bellevue, WA

Dr. Garrard E. A. Wyld, Des Moines, WA
Dr. Arthur G. Anderson, Jr., Seattle, WA
Dr. S. Arnoff, Camano Island, WA
Dr. Gerald B. Bardon, Renton, WA
Dr. Ellis Blade, Vancouver, BC
Mr. R. M. Bridgforth, Jr., Mercer Island, WA
Dr. Richard H. Coe, Eastsound, WA
Dr. Alden L. Crittenden, Seattle, WA
Dr. Reid George Fordyce, Gig Harbor, WA
Dr. Edith M. Godar, Kirkland, WA
Dr. Norman W. Gregory, Seattle, WA
Miss Neva Karrick, Seattle, WA
Dr. Lyman F. Kells, Seattle, WA

Their biographies will appear in a later issue of the *Puget Sound Chemist*.

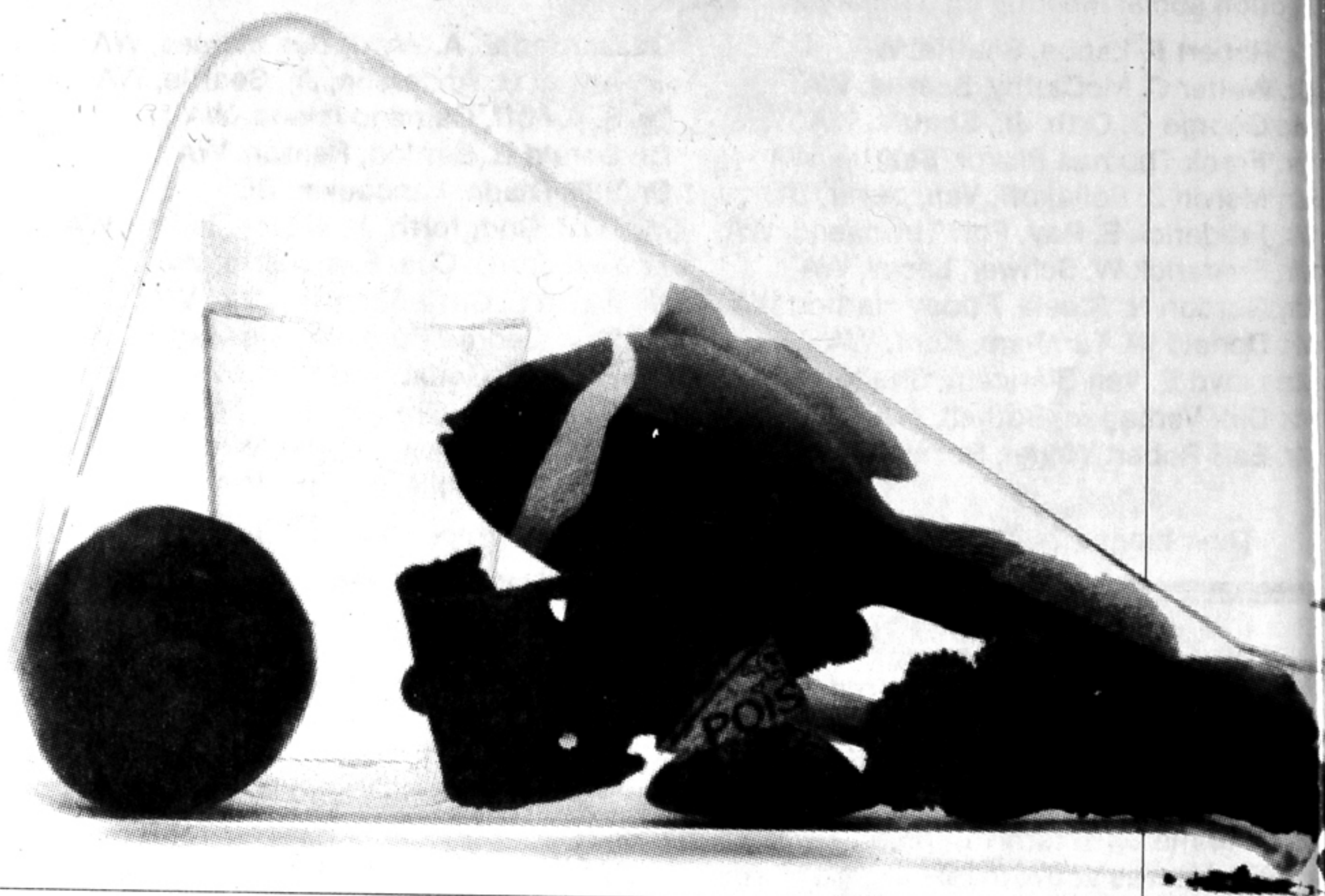
REX J. ROBINSON

Dr. Rex J. Robinson, professor emeritus of Chemistry at the University of Washington, died October 29, 1992, in Seattle at the age of 88. He was a professor of chemistry at the U of W for 42 years. Born and raised in Indiana, he obtained a BA in Chemistry from DePauw University and a PhD from the University of Wisconsin. He came to the University in 1929 where he taught analytical chemistry until his retirement in 1971. He was active in research in chemical oceanography in association with the late Thomas G. Thompson before oceanography became a separate department at the University of Washington.

FUTURE MEETINGS 1993

January 27	Social Meeting—honoring 1992 and 1993 50-year members The Mountain Room at the Rainier Brewery 3100 Airport Way South, Seattle
February	No meeting scheduled
March	ACS Tour Speaker
March 5	Deadline for NORM paper abstracts
March 28-April 12	ACS Spring National Meeting—Denver, CO
April	ACS Tour Speaker
June 17-19	NORM93 48th ACS Northwest Regional Meeting Laramie, Wyoming

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UNIVERSITY OF WYOMING, LARAMIE, WY
JUNE 17-19, 1993**

ABSTRACT DEADLINE-MARCH 5, 1993

The Wyoming Section of the American Chemical Society cordially invites all chemists and interested scientists to the University of Wyoming in Laramie, Wyoming, for the 48th Northwest Regional American Chemical Society Meeting, June 17-19, 1993. The meeting will center around six exciting symposia, as well as technical sessions in selected areas of chemistry.

Contributed papers are solicited for the six symposia, as well as the general sessions. Presenters may choose between oral and poster sessions. To present a contributed paper, send a camera-ready standard ACS abstract original and two copies indicating preference of poster or oral presentation by **March 5, 1993**, to:

Dr. Patrick Sullivan, Program Chairman
Phone (307) 766-4137
FAX (307) 766-2807

Department of Chemistry
University of Wyoming
Laramie, WY 82071

NOTICE: This is the only **Call for Papers** members of the Puget Sound Section will receive. You will not receive a separate mailer from 48th NORM calling for papers. Please note the deadline.

NORM93 will feature a banquet with plenary speaker, a free social mixer on June 17, and interesting commercial and scientific exhibits. Plans are under way for a regulatory compliance workshop with an environmental emphasis.

Laramie is a scenic 2.5-hour drive from the Denver airport. Flights or ground transportation can also be arranged directly to Laramie. Laramie offers many attractions, including tours of the Wyoming Territorial Prison (sometime residence of Butch Cassidy) and Park, hiking and picnicking in the Medicine Bow National Forest, picturesque tours with barbecues on the Wyoming and Colorado Railroad, and opportunities for the historical, archeological, or geological explorers. Housing will be available at university dormitories and local motels. Join us for the weekend in Laramie!

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ORGANIC CHEMISTRY - Bob Corcoran, University of Wyoming

PHYSICAL & THEORETICAL CHEMISTRY - Lew Noe, University of Wyoming

ANALYTICAL CHEMISTRY - John Schabron, Western Research Institute

ENVIRONMENTAL & ATMOSPHERIC CHEMISTRY - Derek Montague, Univ. of Wyoming

BIOCHEMISTRY & MOLECULAR BIOLOGY - Patricia Colberg, University of Wyoming

SYMPOSIA ORGANIZERS

Photochemistry of Inorganic and Organometallic Compounds
Patrick Sullivan, University of Wyoming

3rd Annual Hazardous and Mixed Wastes Symposium
Eric Hoppe, Battelle-PNL

Fuel Chemistry and Engineering
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COMMUNITY COLLEGE CHEMISTRY TEACHERS MEET

The Washington Community College chemistry teachers held their first meeting in eleven years at Port Ludlow Resort on November 5, 6, and 7, 1992. The opening session dealt with issues of general chemistry and included addresses by Darrell Ebbing, author of *General Chemistry* (Houghton-Mifflin), and John Vondeling, Saunders Science Publisher. Later sessions dealt with a wide range of topics related to teaching first- and second-year college students. The featured speaker at the Friday evening banquet was University of Washington chemistry professor William Zoller. He described his high school outreach program and also commented on his experiences in Russia early this fall. The conference attracted over 50 participants with representation from nearly every community college in the state.

The participants at this conference also decided to organize a state organization of college chemistry teachers. This group expects to hold annual meetings with the purpose of improving the first two years of college chemistry teaching.

The Puget Sound section played a key role in the sponsorship of this project and is to be commended.

□ **Looking for space leaks** — Grain-size bits of space dust called micrometeoroids could punch dangerous leaks in the Boeing-designed space station scheduled for deployment late this decade, so Battelle Pacific Northwest Laboratories is producing a collision detection system based on a method used at nuclear power plants. The nuclear industry uses sound waves to check for cracks in reactor pressure vessels. Battelle has adapted the idea by producing sensors that will "listen" for the sound waves created by the collisions of micrometeoroids and identify any punctures. A second system will detect changes in air pressure in the triple-paned windows and hatches where seals could leak. (*Scene, The Seattle Times*, Nov. 16, 1992)

ACS SOLICITS NOMINATIONS FOR 1994 AWARDS

Nominations are now being accepted for the nearly 50 awards to be administered by the American Chemical Society (ACS) in 1994.

ACS awards have won renown throughout the scientific world, and the success of the ACS awards program is due in great part to the involvement and support of the chemical process industries. An analysis of ACS award winners over the past two decades, however, indicates that a clear majority of the awards go to academic scientists, as opposed to industrial scientists.

To ensure appropriate representation and recognition of industrial scientists in the ACS awards program, the ACS Committee on Corporation Associates (CCA) in 1991 established an Awards Subcommittee. This subcommittee, chaired by Ted Logan (Procter & Gamble), urges you and your company to become involved in the awards process by submitting names of individuals to serve on award canvassing and selection committees, and by nominating award candidates. Nominations for 1994 ACS awards may be submitted at any time prior to February 1, 1993.

Any individual may submit award nominations. They should include the following: 1) a letter specifying the work to be recognized by the proposed award; 2) an evaluation and appraisal (of not more than 1000 words) of the nominee's accomplishments; 3) a biographical sketch of the nominee (including date of birth); and 4) a list of patents and/or publications authored by the nominee. Seconding letters are not necessary.

The ACS awards program is one of the most visible means by which the Society meets its obligation "to encourage . . . the advancement of chemistry in all its branches, the promotion of research in chemical science and industry, [and] the improvement of the qualifications and usefulness of chemists." You can help to ensure the continuing excellence of ACS awards by nominating the highly qualified candidates on your staff.

For a description of all awards for which nominations are being solicited, consult the October 26, 1992, issue of *Chemical & Engineering News*; or contact the ACS Awards Office at (202) 872-4408 to receive a copy of *Awards Administered by ACS*. [from *Industry Forum*, ACS Industry Relations (Oct. 1992, Vol. 1, No. 5)]

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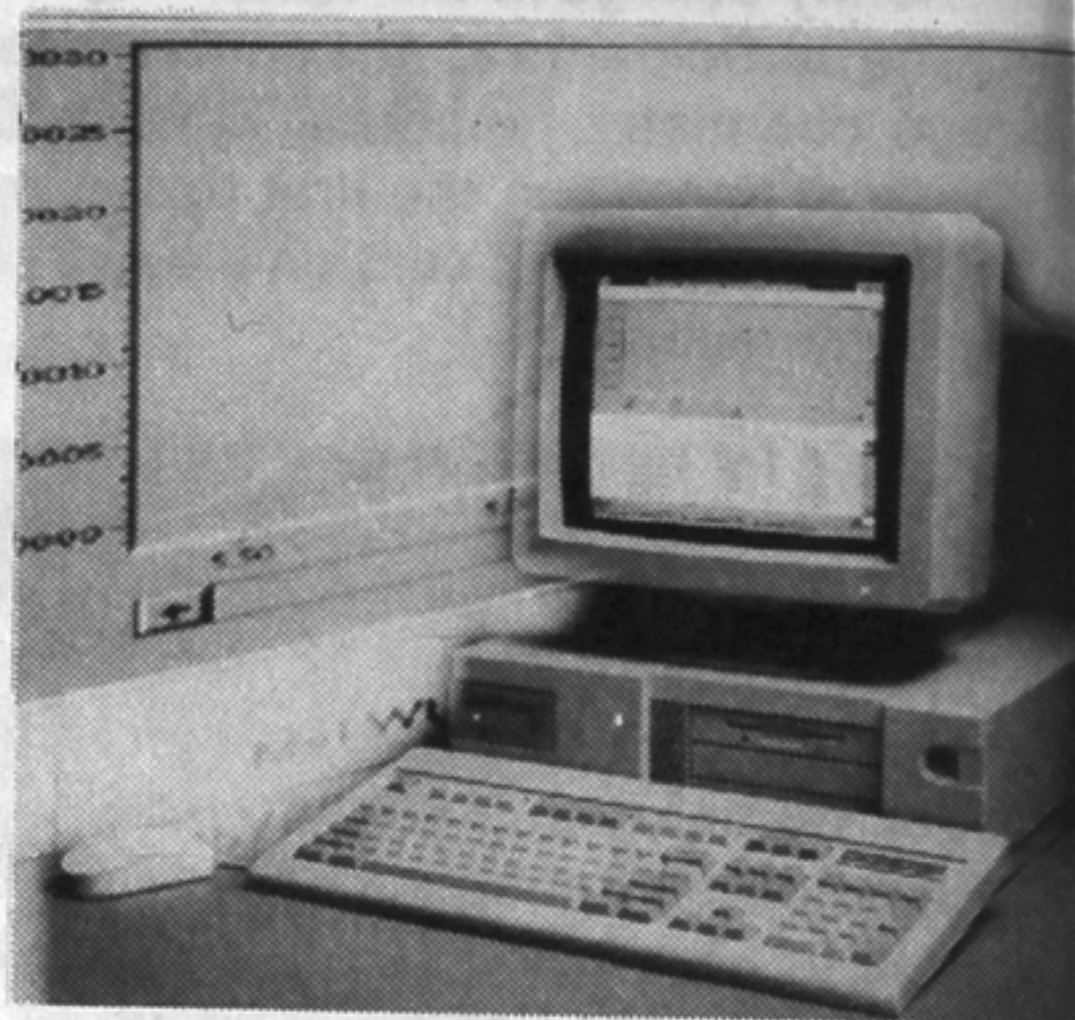
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We all know someone—a relative, friend, or colleague—who has touched us in a special way and whose memory or achievements merit recognition. While creating a thoughtful tribute to a treasured relationship, you can also ensure the vitality of the American Chemical Society by making a memorial or honorary gift.

Honorary and memorial gifts help advance ACS programs which are not fully funded by dues. Gifts may be designated to a program area such as Public Outreach or Education or to a specific activity such as National Chemistry Week or Congressional Fellowships. Gifts to the Project SEED, National Chemistry Olympiad, or ACS General Endowments are lasting and meaningful ways to express your feelings for a colleague or friend—whether living or deceased.

Some of the individuals who have been recognized with memorial gifts to the Society are: Frederick B. Bailey, Jr., Herbert Fineberg, Milton Harris, Jan Kopecky, Arnold Lada and Cheng Qian. Gifts have also been received in honor of Robert A. Baker, Ernest L. Eliel, and Mary L. Good.

The Society is pleased to list all individuals making such meaningful gifts under the name of the person honored in a Memorial/Tribute book which is displayed in the main lobby of the Society headquarters in Washington, D.C. All gift amounts are confidential.

Please consider joining many of your fellow ACS members in making gifts that remember someone close to you, while at the same time help us further the Society's goals. For more information about a memorial or honorary gift, contact the Tribute Program, ACS Development Office, 1155 Sixteenth Street NW, Washington, DC 20036.

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ACS CONGRESSIONAL FELLOWSHIP AVAILABLE FALL 1993

The ACS Congressional Fellowship places an ACS member in a staff position in Congress to gain firsthand knowledge of the operation of the legislative branch of the federal government, make scientific and technical expertise available to the government, and forge links between the scientific and government communities. Applications are due January 1, 1993, and must consist of a letter of intent, and two letters of reference. Arrangements should be made to send the letters of reference directly to ACS. Candidates should contact ACS prior to submitting an application to determine the type of information needed in the letter of intent. For more information, contact: Department of Government Relations and Science Policy, American Chemical Society, 1155 Sixteenth Street NW, Washington, DC 20036, (202) 872-4467.

1993 DUES BILL REMINDER

If you have not received your 1993 dues bill, please contact the ACS Department of Member and Subscriber Services at (800) 333-9511. If you have questions concerning your membership, please call Jean Parr, Manager, Office of Member Services at (202) 872-4414. *Additional reminder:* In accordance with an ACS policy on a grace period for unrenewed ACS journals and C&EN, ACS cannot continue to send C&EN and journals after February 28 to those members whose 1993 dues and subscription payments are not received by February 1. If you have questions about your dues bill or wish to charge your payment by phone, call (800) 333-9511 or (614) 447-3600. Be sure to have your credit card handy for ready reference.

NOTICE TO MEMBERS WISHING TO RESIGN

ACS members who wish to resign their membership at the end of 1992 should do so now by letter to the ACS executive director. Bylaws specify that anyone who fails to resign by Dec. 31 will be carried on the rolls in 1993 as a member and will be responsible for dues. Failure to pay dues does not constitute a resignation.

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COUNCILORS' REPORT

Two of our local section Councilors were appointed to important national American Chemical Society Committees at the Councilors meeting recently in San Francisco.

Bill Wasserman was appointed Associate Member (1993) of the ACS Committee on Meetings and Expositions.

Herb Bryce was appointed Associate member (1993) for the Local Sections Activities Committee. He also reported on our *Safety in the Home* video and on our *Chemistry for Kids* activities.

EDUCATION COMMITTEE MEETINGS

The Education Committee of the Puget Sound section met on Wednesday, December 2, at Seattle Central Community College. Their next meeting will be early in 1993. This committee is committed to supporting projects to enhance the teaching of chemistry at all levels—kindergarten through college. New members are always welcome. For further information, contact Mary O'Brien at 771-1641.

EMPLOYMENT CHAIRPERSON NEEDED

Our local Section is seeking a Chairperson for the Standing Committee on Employment. If you are interested in serving on this Committee, contact Despina Strong, Section Chairperson, 895-4737 (ofc), 364-9783 (hm).

CHEMICALS IN THE HOME

The Health and Safety Committee of the Puget Sound Section, ACS, has prepared an audio/visual program on the subject of chemicals in the home. It is designed to help the public conception of the chemical business by improving the use, storage and disposal of these beneficial products.

The program is about 10 minutes in length and is available as a video tape or in a slide/tape format. The short length allows time for questions from the audience. It can be shown to any group such as luncheon clubs, garden clubs, or any group that includes users of these products.

If any of you are part of or know of any group that would be interested in this program, please contact Dirk Verhagen at (206) 745-3494.

DIRECTORY OF CHEMISTRY OUTREACH PROGRAMS AVAILABLE TO PUBLIC FROM THE AMERICAN CHEMICAL SOCIETY

A directory of public outreach programs and publications offered by the nation's chemistry community is now available free of charge from the American Chemical Society (ACS). The programs listed include such activities as science competitions, teacher workshops, and speakers bureaus. The 53-page booklet should be especially useful to science educators and organizations desiring increased contact with the chemistry community, as well as to everyone interested in science generally. It also could benefit organizations with outreach programs already in place by indicating what is being done elsewhere. The directory was produced by the ACS education division with the cooperation of the Council of Chemical Research, Chemical Manufacturers Association, and Pharmaceutical Manufacturers Association. It describes public outreach activities by ACS local sections, chemistry departments of research universities, and chemistry-oriented companies. Sources of the information are listed, including names and phone numbers of contacts.

Former ACS president Paul G. Gassman in his introduction to the director notes that "science rich" chemistry organizations (e.g., corporations, universities, government agencies, and professional organizations) contribute broadly to science and technology activities. But in spite of all this effort, "millions of students still receive seriously inadequate education in science and technology," he says. "Also, only a small fraction of the general public has regular opportunities to learn about or to be updated about important aspects of science and technology that affect the economy, the environment, and life itself," he adds. "We believe this report will be useful to all concerned—that the 'science rich' will be stimulated to expand their outreach and that the 'science poor' will be aided in their search for programs and resources that may be used locally with little or no modification."

The scope of the directory is reflected in its table of contents, which describes 21 ongoing programs under the heading "student-oriented programs"—from "career exploration" to "tutoring and homework hot lines." The "scholarship" section lists 104 sponsors. Next is "teacher-oriented programs," which includes "summer employment for teachers," "teaching as a second career," and "research internships for high school faculty." The third heading, "institutional support," includes "instructional materials development," "media events and materials," and "minigrants, grants, and other financial support."

Copies of the directory may be obtained by phoning 1-800-227-5558, option 86. From the Washington, DC, area, call (202) 452-2107.

PATENT PUBLICATIONS AVAILABLE

The ACS Committee on Patents and Related Matters has published several patent publications now available from the ACS Department of Government Relations and Science Policy (GRASP). These publications are intended for chemists in industry, academe, and business as well as college chemistry students, professors and teachers, researchers and research directors, and business managers.

What Every Chemist Should Know About Patents is an introduction to the essentials of patents and of patenting procedures. The handbook presents an overview of obtaining, using, and valuing patents. Copies are available for \$2.00 each. Checks should be made payable to ACS.

The "**Record Keeping Fact Sheet**" is a guideline for maintaining complete and proper research records. The two-page pamphlet lists the dos and don'ts of laboratory notebook record keeping for the protection of intellectual property. It is available free of charge.

Electronic Record Keeping for Patent Purposes: Cautions and Pitfalls calls the reader's attention to precautions in maintaining research records in computers and data storage devices. It is also available free of charge.

Single copies of these publications may be obtained by sending your requests (with any payment due) to ACS, Department of Government Relations and Science Policy, 1155 Sixteenth Street, N.W., Washington, D.C. 20036. Including a self-addressed label will expedite your order. For multiple copies, contact Wanda Guice at (202) 872-4479. [from *Industry Forum*, ACS Industry Relations (Oct. 1992, Vol. 1, No. 5)]

PUGET SOUND CHEMIST



BULLETIN OF THE
PUGET SOUND SECTION
AMERICAN CHEMICAL SOCIETY

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Puget Sound Section, ACS Executive Committee Future Meetings in 1992

Meetings are open to all members and are held
on the second Wednesday each month.

Dec. 9 Jan. 8 Feb. 12

Place: Seattle University
Dinner: 5:30 PM in Cafeteria (optional)
Meeting: 6:30 PM in Room 511,
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- GPC, high temp, aqueous and all solvents
- FTIR, with Micro capabilities
- Tensile and Puncture, -40°F to 600°F
- Headspace, Pyrolysis GC
- Oxidation Studies, TGA, DSC, TMA
- USP XXII Testing EP Toxicity
- Thermoplastic and Thermoset Formulations
- Plastic Film, constructions, Ident
- Gas Permeation Rates, most gases
- Residual solvents, Monomers, qual and quant
- Outgassing, qual and quant
- Deformulations; Coating and Paints, Organics
- Aging; Thermal, Humidity, UV, Cold



444 W. County Rd. D
St. Paul, MN 55112
612-631-9412
FAX 612-631-8405

CHEMICAL ANALYSIS • PHYSICAL TESTING

- Spectroscopy; AA, FT-IR, Micro IR
- Chromatography; LC, GPC, GC, Ion
- Thermal Analysis; DSC, TGA, DMA, TMA
- Microscopy ESD Instrumentation
- CHNOS GC/MS
- Instron, ASTM-TAPPI Instrumentation
- Environmental Instrumentation

American Chemical Society
Puget Sound Chemist
P.O. Box 24032
Seattle, WA 98124-0032

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